solution to release adenosine triphosphate (ATP) or alkaline phosphatase (AP) from the test sample into the solution for testing; and (ii) a reaction stopping solution having a pH of 8 to 11, which test apparatus includes a luciferin-luciferase or phosphatase substrate reagent for reaction with the released adenosine triphosphate (ATP) or alkaline phosphatase (AP) in the solution.

6. (Amended) The combination of claim 5 wherein the test apparatus further comprises a longitudinally moveable probe to puncture the membrane seals.

10. (Twice amended) The combination of claim 7, wherein the reagent composition is selected from the group consisting of (i) a detergent-containing buffered solution to release adenosine triphosphate (ATP) or alkaline phosphatase (AP) from the test sample into the solution for testing; and (ii) a reaction stopping solution having a pH of 8 to 11 and wherein said test apparatus includes a luciferase and a luciferin reagent at the bottom end of the test unit.

11. (Amended) The combination of claim 6, wherein the test apparatus further comprises a threadable means to move the probe spirally and longitudinally to puncture the membrane seals.

12. (Amended) The chamber of claim 1, wherein the reagent composition is selected from the group consisting of i) a detergent-containing buffered solution to release adenosine triphosphate (ATP) or alkaline phosphatase (AP) from the test sample into the solution for testing; ii) a reaction stopping solution having a pH of 8 to 11; and iii) a luciferin-luciferase or phosphatase substrate reagent, and wherein the reagent composition includes a biological buffer solution to optimize a reaction for the detection of adenosine triphosphate (ATP) or alkaline phosphatase (AP).

21. (Twice Amended) A transparent test unit for use in a test apparatus, and which test unit comprises: a one end; a closed bottom end; a probe-puncturable membrane over the one end; and the one end having threads for attachment of the test unit to the test apparatus, and the test unit having one or more unit dose reagent chambers, and which unit dose chamber comprises:

a) a cylinder having a one open end and an other opposite open end;

b) a probe-puncturable membrane seal over the one end and the other end of the cylinder to form a sealed compartment; and

c) a reagent composition for use in the detection of the test sample and sealed within the sealed compartment.